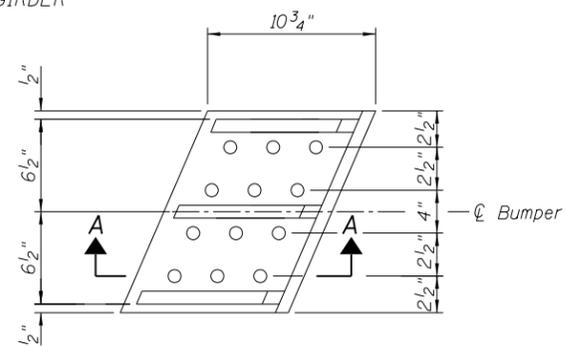
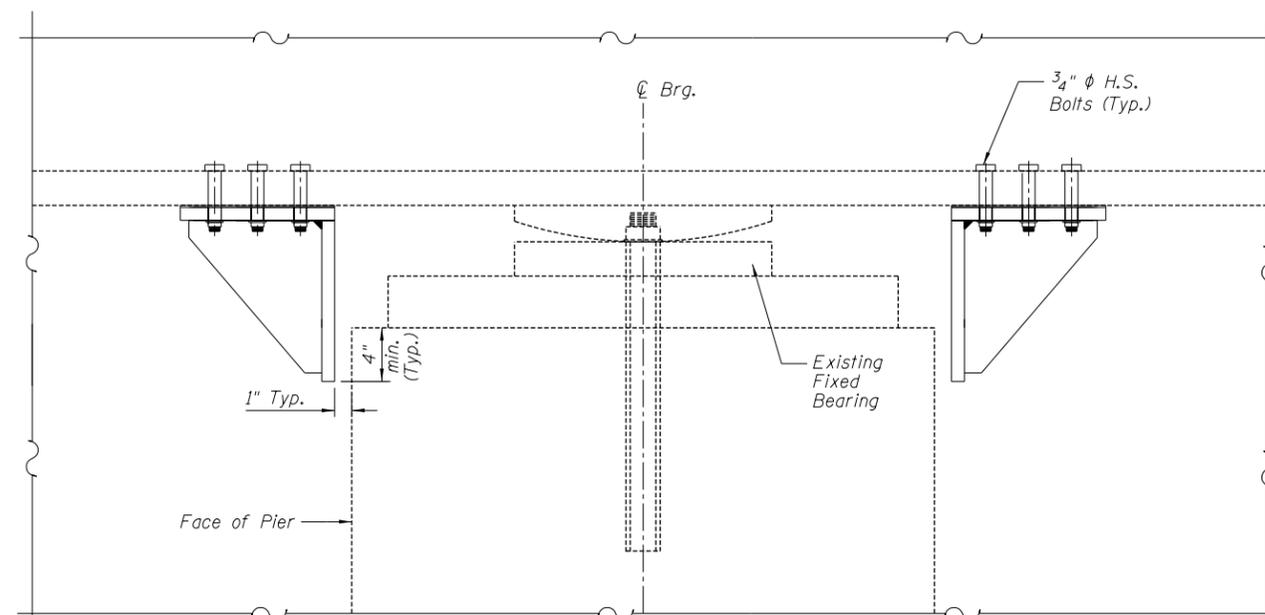


PLAN AT PIER 2
TYPICAL EACH GIRDER



SEISMIC BUMPER



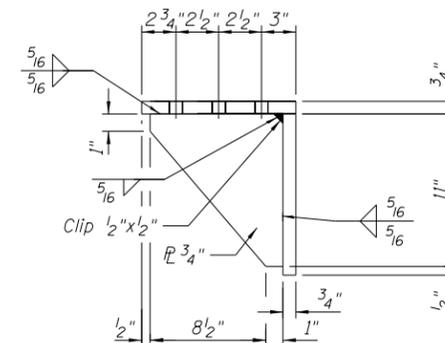
ELEVATION AT PIER 2
FIXED BEARING

NOTES:

1. Use $1\frac{3}{16}$ " holes for $\frac{3}{4}$ " ϕ A325 HS bolts.
2. Attach Seismic Bumpers to each Girder at both North and South Abutments and both Structures (36 Each).
3. Cost Of drilling holes in bottom flange of existing Girder shall be included in Furnishing and Erecting Structural Steel.
4. Contractor shall verify all field dimensions necessary for Seismic Bumpers prior to fabrication.
5. $F_y = 50$ Ksi (Structural Steel).
6. Seismic Bumper shall be installed parallel to Pier.
7. The Seismic bumpers shall be coated as specified in Article 506.08 (b) of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	4120



SECTION A-A

8/24/2012 10:09:02 PM G:\CHIN\013\Bridges\CADD\060-0216&0217-76A89-14- Bumper.dgn

FILE NAME = 0600216&0217-76A89-14- Bumper.dgn



USER NAME = DMGolas	DESIGNED - KRS	REVISED -
PLOT SCALE = 2:8 1" = 16'	CHECKED - FAS	REVISED -
PLOT DATE = 8/24/2012	DRAWN - DMG	REVISED -
	CHECKED - FAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEISMIC BUMPERS
STRUCTURE NO. 060-0216 NB AND 060-0217 SB

SHEET NO. 14 OF 14 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-(7,8) RS-2	MADISON	261	257
CONTRACT NO. 76A89				

ILLINOIS FED. AID PROJECT